

ABSTRACT OF THE DISCLOSURE

5 A method and host bus adapter for controlling failover
and failback processes within a redundant data storage
system. The method is carried out by a failover mechanism
10 in a host bus adapter linked to a host server. The system
includes a communication fabric providing data paths to
pairs of redundant storage controllers managing access to
storage devices (such as hard disk drives arranged as RAID).
The method includes operating the host bus adapter to detect
15 a failover condition and in response, to match the failover
condition to a particular failover action. The failover
conditions and corresponding actions are stored in a well-
defined rule set accessed by the host bus adapter. The
method continues with performing with the host bus adapter
the matched failover action. The method is transparent to
the host computer device, as the host is not required to
participate in the failover processes.